BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work:Construction of CC road & RCC drain at cross roads of 3rd Cross roads and surrounding area at Kattigenahalli Village in Ward No.05

BYATARAYANAPURA DIVISION

EMB

1st & Final Bill

BRUHATH BANGALORE MAHANAGARAPALIKE

YELAHANKA ZONE

1ST AND FINAL BILL

Name of Work :- Construction of CC road & RCC drain at cross roads of 3rd Cross roads and surrounding area at Kattigenahalli Village in Ward No.05

Work Order No: BBMP / EE/ BTP/ W.O /240/2019-20 dt: 21-03-2020

JOB NUMBER: 005-20-000077

Estimate Cost: 65.00 lakhs.

As No: AS/EE(BTP)/118/2019-20 dt:16-03-20

Ts No :TS/ SE(YNK) /47/2019-20 dt :16-03-20

Name of Contractor : M/S KRIDL

Item No	Description of Item	No	Length	Breadth	D1	D2	Avg Depth	Unit	Qty	Rate in Rs	Amount
1	Earthwork excavation by manual means for roads, drains & similar works in ordinary soil invoiving , excavated surface leveled & sides neatly dressed , the disposed earth to be levelled neatly after breaking of clods complete as per specification MORTH/ Chapter 3.										
	Qty Taken from Pre measurement page Item No. 1, page No.1to2							**Cum**	**812.35**	**220.40**	**179042.49**
2	Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 20mm and down size graded granite metal coarse aggregates @0.84cum and fine aggregtes @ 0.56cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications.										
	Qty Taken from Pre measurement page Item No. 2, Page No.2to3							**Cum**	**240.44**	**5509.33**	**1324680.41**
3	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specificationsdo- Wall & bottom thickness 15cm 23/6/2020 to 30/6/2020										
	For Bottom raft										
	For RCC drain										
	OM Circle										
	LHS Cross roads from 3rd cross										
	Cross road-1										
	LHS	1	30.00	1.00	0.15	0.15	0.15		4.50		
		1	30.00	1.00	0.15	0.15	0.15		4.50		
		1	17.00	1.00	0.15	0.15	0.15		2.55		
	RHS										
		1	30.00	1.00	0.15	0.15	0.15		4.50		
		1	30.00	1.00	0.15	0.15	0.15		4.50		
		1	17.00	1.00	0.15	0.15	0.15		2.55		
	Cross road-2										
	RHS	1	30.00	1.00	0.15	0.15	0.15		4.50		
		1	30.00	1.00	0.15	0.15	0.15		4.50		
		1	19.50	1.00	0.15	0.15	0.15		2.93		
	LHS										
		1	30.00	1.00	0.15	0.15	0.15		4.50		
		1	30.00	1.00	0.15	0.15	0.15		4.50		
		1	19.50	1.00	0.15	0.15	0.15		2.93		
	Cross road-3										
	LHS										
		1	30.00	1.00	0.15	0.15	0.15		4.50		
		1	30.00	1.00	0.15	0.15	0.15		4.50		
		1	21.00	1.00	0.15	0.15	0.15		3.15		

	RHS											
		1	30.00	1.00	0.15	0.15	0.15		4.50			
		1	8.00	1.00	0.15	0.15	0.15		1.20			
	For Wall											
	For RCC drain											
	OM Circle											
	LHS Cross roads from 3rd cross											
	Cross road-1											
	LHS	2	30.00	0.15	0.65	0.65	0.65		5.85			
		2	30.00	0.15	0.65	0.70	0.68		6.08			
		2	17.00	0.15	0.70	0.70	0.70		3.57			
	RHS											
		2	30.00	0.15	0.65	0.70	0.68		6.08			
		2	30.00	0.15	0.70	0.70	0.70		6.30			
		2	17.00	0.15	0.70	0.65	0.68		3.44			
	Cross road-2											
	RHS	2	30.00	0.15	0.65	0.65	0.65		5.85			
		2	30.00	0.15	0.65	0.70	0.68		6.08			
		2	19.50	0.15	0.70	0.70	0.70		4.10			
	LHS											
		2	30.00	0.15	0.65	0.70	0.68		6.08			
		2	30.00	0.15	0.70	0.70	0.70		6.30			
		2	19.50	0.15	0.70	0.65	0.68		3.95			
	Cross road-3											
	LHS											
		2	30.00	0.15	0.65	0.65	0.65		5.85			
		2	30.00	0.15	0.65	0.70	0.68		6.08			
		2	21.00	0.15	0.70	0.65	0.68		4.25			
	RHS											
		2	30.00	0.15	0.65	0.70	0.68		6.08			
		2	8.00	0.15	0.70	0.70	0.70		1.68			
	Ramp for LHS Culverts from 3rd cross											
	Culvert at Cross1	2	5.00	0.75	0.15	0.15	0.15		1.13			
	Culvert at Cross3	2	6.00	0.80	0.15	0.15	0.15		1.44			
								Present Qty	**Cum**	**154.95**	**7189.42**	**1114027.31**
4	Providing T.M.T steel reinforcement for R.C.C workincluding straightening, cutting, bending, hooking, placing in position,lapping and / or welding wherever required, tying with binding wire andanchoring to the adjoining members wherever necessary complete asper design (laps, hooks and wastage shall not be measured and paid)cost of materials, labour, HOM of machinery complete as perspecifications											
	Qty Taken from Pre measurement page Item No.4, Page No.3to4							**Tonne**		**10.18**	**72326.98**	**736564.22**
5	Providing and fixing Precast RCC cover slabs of 100 mm thick for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement and pointing for joints 1:3 cement mortor including form work, lift charges,curing and concertee finished surface on both sides etc,and complete as per the directions of Enginner in charges.(Data Rate)											
	For RCC drain											
	OM Circle											
	LHS Cross roads from 3rd cross											
	Cross road-1											
	LHS	1	30.00	0.90					27.00			
		1	30.00	0.90					27.00			
		1	17.00	0.90					15.30			
	RHS											
		1	30.00	0.90					27.00			
		1	30.00	0.90					27.00			
		1	17.00	0.90					15.30			
	Cross road-2											

	RHS	1	30.00	0.90					27.00		
		1	30.00	0.90					27.00		
		1	19.50	0.90					17.55		
	LHS										
		1	30.00	0.90					27.00		
		1	30.00	0.90					27.00		
		1	19.50	0.90					17.55		
	Cross road-3										
	LHS										
		1	30.00	0.90					27.00		
		1	30.00	0.90					27.00		
		1	21.00	0.90					18.90		
	RHS										
		1	30.00	0.90					27.00		
		1	8.00	0.90					7.20		
								Present Qty	**Sqm**	**388.80**	**2337.00**	**908635.60**
Item No	**Description of Item**	**No**	**Length**	**B1**	**B2**	**Avg Breadth**	**Depth**	**Unit**	**Qty**		
6	Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications										
	Qty Taken from Pre measurement page Item No.6, page No.4to5							**Cum**	**1128.80**	**6.36**	**7179.17**
7	Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications.										
	Qty Taken from Pre measurement page Item No.7, page No.5							**Cum**	**169.32**	**2001.28**	**338856.73**
8	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M20/M30 , with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. - M30 (at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum)										
	For CC Road										
	2nd cross										
		1	30.00	4.90	4.80	4.85	0.15		21.83		
		1	30.00	4.80	4.80	4.80	0.15		21.60		
		1	25.50	4.80	5.00	4.90	0.15		18.74		
	LHS Cross roads from 3rd cross										
	Cross Road-1 from 3rd cross										
		1	30.00	5.10	4.90	5.00	0.15		22.50		
		1	30.00	4.90	4.30	4.60	0.15		20.70		
		1	17.00	4.30	4.30	4.30	0.15		10.97		
	Cross Road-2 from dead end										
		1	30.00	5.10	4.90	5.00	0.15		22.50		
		1	30.00	4.90	4.90	4.90	0.15		22.05		
		1	19.50	4.90	4.80	4.85	0.10		9.46		
	Deductions										
	Cross Road-1										
	Ramp	-1	6.60	0.50	0.50	0.50	0.15		-0.50		

	Cross Road-2										
	Electric Pole	-3	0.20	0.20	0.20	0.20	0.15		-0.02		
		-2	2.00	0.60	0.60	0.60	0.15		-0.36		
								Present Qty	**Cum**	**169.32**	**5354.02**	**906542.98**
9	Vaccum de-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery, Screed Vibratory, Power Floater, blade and disc etc., with all lead and lift.										
	For CC Road										
	2nd cross										
		1	30.00	4.90	4.80	4.85			145.50		
		1	30.00	4.80	4.80	4.80			144.00		
		1	25.50	4.80	5.00	4.90			124.95		
	LHS Cross roads from 3rd cross										
	Cross Road-1 from 3rd cross										
		1	30.00	5.10	4.90	5.00			150.00		
		1	30.00	4.90	4.30	4.60			138.00		
		1	17.00	4.30	4.30	4.30			73.10		
	Cross Road-2 from dead end										
		1	30.00	5.10	4.90	5.00			150.00		
		1	30.00	4.90	4.90	4.90			147.00		
		1	19.50	4.90	4.80	4.85			94.58		
	Deductions										
	Cross Road-1										
	Ramp	-1	6.60	0.50	0.50	0.50			-3.30		
	Cross Road-2										
	Electric Pole	-3	0.20	0.20	0.20	0.20			-0.12		
		-2	2.00	0.60	0.60	0.60			-2.40		
								Present Qty	**Sqm**	**1161.31**		
								Limited to	**Sqm**	**1128.80**	**72.08**	**81363.90**
											Total	**5596882.82**
											GST Charges 12%	**671625.94**
											KRIDL Charges 4%	**223875.31**
											Grand Total	**6492384.07**

28/7/2020

Assistant Engineer
Ward No.05

Assistant Executive Engineer
Bytarayanapura Sub-Division